

# Energy Seal Coatings

Cool Roof Solutions

## Acu-Shield:T

Elastomeric Roof Coating for tropical environments



### DESCRIPTION

Acu-Shield:T is a 100% acrylic elastomeric coating for all types of roofs. It contains rust inhibitors, which makes it ideal for application over metal. Acu-Shield:T is engineered to withstand algae in tropical and sub-tropical environments better than our standard Acu-Shield.



### USES

Asphalt, concrete, EPDM, stucco, wood, tile, capsheet, TPO, PVC and metal roof surfaces (galvanized metal, tin, cast iron, aluminum or steel).

### FEATURES & BENEFITS

- ✓ SRI is 111 (*solar reflectance index*)
- ✓ Reduces daily expansion and contraction (thermal cycling).
- ✓ Contains strong rust inhibitive pigments.
- ✓ Reflects 90% of the infra-red heat and harmful UV rays of the sun.
- ✓ Excellent reflective properties which helps to reduce cooling costs. Prevents premature aging and leaks.
- ✓ Contains a strong mildewcide / fungicide.
- ✓ Excellent adhesion to various substrates.
- ✓ Superior resistance to dirt pick-up, helps stay white longer & maintains reflectivity.
- ✓ Easy to use, easy clean up, non-toxic and VOC compliant water based coating.
- ✓ Solar Reflectance: 0.88
- ✓ Thermal Emittance: 0.89

### PREPARATION

All surfaces to be coated must be clean, dry and free of any oil, grease or dirt. High pressure water washing is recommended. Any existing coating must be checked for good adhesion. Before application, any loosely adhered coating must be removed and bare surfaces must be prepared, cleaned and checked for compatibility.

### APPLICATION

Acu-Shield:T is ready to use. Thinning is not required or recommended.

Spray: Airless sprayer. 3000 p.s.i., 2 g.p.m. capacity with a #631 tip.

Brush: Good quality synthetic bristle brush.

Roller: Long nap roller.

**V.O.C.**  
50 g./lit.

Acu-Shield:T

Manufactured by Advanced Coating Systems, Inc.

[www.energy-seal.com](http://www.energy-seal.com)

**Seal It. Conserve It. Protect It.**

**800-587-3758**

# Acu-Shield:T

## Technical Data

Property	ASTM	Result
<b>Color:</b>		White; custom colors available.
<b>Viscosity:</b>	D 562	115 – 120 KU @ 25°C / 77°F
<b>Density:</b>	D 1475	11.75 ± .1 lb/gal
<b>PH:</b>		> 8.0 ± .5
<b>Percent Solids by Volume:</b>	D 2697	51% ± 2 %
<b>Percent Solids by Weight:</b>	D 1644	65% ± 2%
<b>Flash Point:</b>		Same as water.
<b>Tensile Strength at Max Stress:</b>	D 2370	254 lb/in <sup>2</sup> @ 22°C / 73°F
<b>% Elongation at Break:</b>	D 2370	465% @ 22°C / 73°F
<b>Flexibility:</b>	D 522	Pass (-5°C)*
<b>Permeability (20 mil dry film)</b>	D 1653	21
<b>Fungi Resistance:</b>	G 21	Zero Growth
<b>Coverage:</b>		2.5 gallons per 100 sq.ft. yields 20 dry mils. 3.5 gallons per 100 sq.ft. yields 30 dry mils. For corrugated metal, add 20% for pitches & ribs.
<b>Recommended Coverage:</b>		Minimum of two coats. (20 dry mils.)
<b>Min. Surface Application Temp.:</b>		7.2°C / 45°F. Do not allow to freeze.
<b>Drying Time estimation:</b>		3 hours @ 25°C / 77°F, 50% relative humidity; to sustain foot traffic.
<b>Packaging:</b>		5 gallon buckets, 50 gallon drums.
		* <i>After 1000 hours accelerated weathering.</i>

Some separation may occur during shipping and storage, therefore the contents of each container should be thoroughly mixed prior to application. Shelf life for this product is 12 months, unopened, from the date of manufacturer.

**CAUTION:** Do not apply within two hours of sunset, rain, fog or freezing temperatures. All coatings must be completely dry before exposing to water or foot traffic. Keep all containers covered when not in use. Dispose of all containers in accordance with state and local environmental regulations. Keep away from children. If ingested, DO NOT induce vomiting. Call Physician immediately.

Our technical data and suggestions are based on information from laboratory and field testing which we believe to be reliable and correct. However, the accuracy and completeness of said tests are not guaranteed and not to be construed as a warranty, either expressed or implied. Since the use of the material is beyond manufacturer's control, buyer assumes all risk whatsoever as to their use or results obtained. We guarantee our products conform to Advanced Coating Systems, Inc. quality control. Advanced Coating Systems, Inc. warrants only the standard quality of material. Advanced Coating Systems, Inc. sole responsibility shall be to replace that portion of our product, which proved to be defective. Installer is responsible to test adhesion and product compatibility with substrate of all Energy Seal Coatings products prior to application.